KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.
Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/F.AGG/1046-1591/2013-2014 **Date: 28.07.2013**

TEST REPORT ON AGGREGATE
(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Byatarayanapura Sub Division,
BBMP Bangalore.

Name of the Project* : Improvements of roads and drains at Shanthinagara(Hegadenagara) in Ward no 06, Byatarayanapura Sub Division..

Name of Contractor* : Mr. G.Shivakumar, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 24.07.2013.

Technical Reference : IS: 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	95.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	76.7	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	62.0	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	38.9	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	10.	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	1.2	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Silt Content (%)	2.15	-

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

AE-06
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

KARNATAKA TEST HOUSE PVT.LTD. NABL Accredited Laboratory

(SREENIVASA.C)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

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Report No. : KTH/C.AGG/1046-1590/2013-2014 **Date: 28.07.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Byatarayanapura Sub Division,
BBMP Bangalore.

Name of the Project* : Improvements of roads and drains at Shanthinagara(Hegadenagara) in Ward no 06, Byatarayanapura Sub Division..

Name of Contractor* : Mr. G.Shivakumar, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 24.07.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	87.5	85 to 100	95 to 100	
3	20	12.6	0 to 20	30 to 70	
4	12.5	5.1	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	11.05	Not specified
2	Elongation Index (%)	40	15.87	Not specified
3	Impact Value (%)	40	23.15	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

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Report No. : KTH/ CEMENT /1046-1592/2013-2014 **Date: 03.09.2013**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Byatarayanapura Sub Division,
BBMP Bangalore.

Name of the Project* : Improvements of roads and drains at Shanthinagara (Hegadenagara) in Ward no 06, Byatarayanapura Sub Division..

Name of Contractor* : Mr. G.Shivakumar, Bangalore.

Source of Sample : Supplied by the Contractor.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Birla Super 53 Grade.

Sample Received on : 24.07.2013.

Period of Test : 26.08.2013 to 02.09.2013.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	28.75%	Not specified	-
2	Initial setting time	191 minutes	Shall not be less than 30 minutes	P
3	Final setting time	289 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 29.56 MPa 40.87 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	347.24 m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	1.02 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

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